

I/A Series® Hardware

Field Automation Subsystem

Micro-I/A™ Type 1 Station



DESCRIPTION

The Micro-I/A Type 1 Station is a compact design intended for field mounting on a DIN rail in close proximity to the devices being controlled. The station is vented and is typically installed in a vented or sealed enclosure along with other I/O field equipment.

BASIC CONFIGURATIONS

The interior of the station is available in two physical configurations:

- Head Section only
- Head Section plus Expander Section

Head Section – This section contains one slot for the Processor Card plus two slots for PCMCIA Cards. The section also includes an expander section connector and supports field upgrades to add the expander section.

Expander Section – The expander section adds two PCMCIA Card slots which are typically used to incorporate additional field-side communication option cards. The geometry of the Type 1 Station allows addition of one expander section.

PCMCIA INTERFACE CABLES

The Type 1 Station provides bottom front access to the termination assemblies (referred to as dongles) which are an integral part of the PCMCIA Interface Cables. The dongles press onto an alignment pin which also provides case grounding to the DIN rail, increasing immunity to electrostatic discharge. The cables are routed up either side of the case for connection to the PCMCIA cards.

INTERIOR ACCESS

The removable front cover provides convenient access for installing or removing PCMCIA cards, performing maintenance, or reconfiguring hardware. Adding an expander section or swapping the main processor is an off-line procedure that is normally performed with the unit removed from the DIN rail.

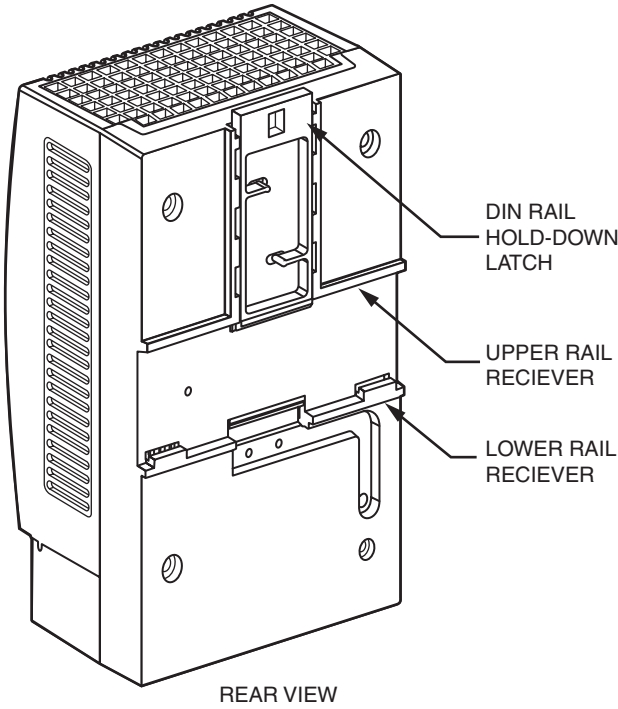
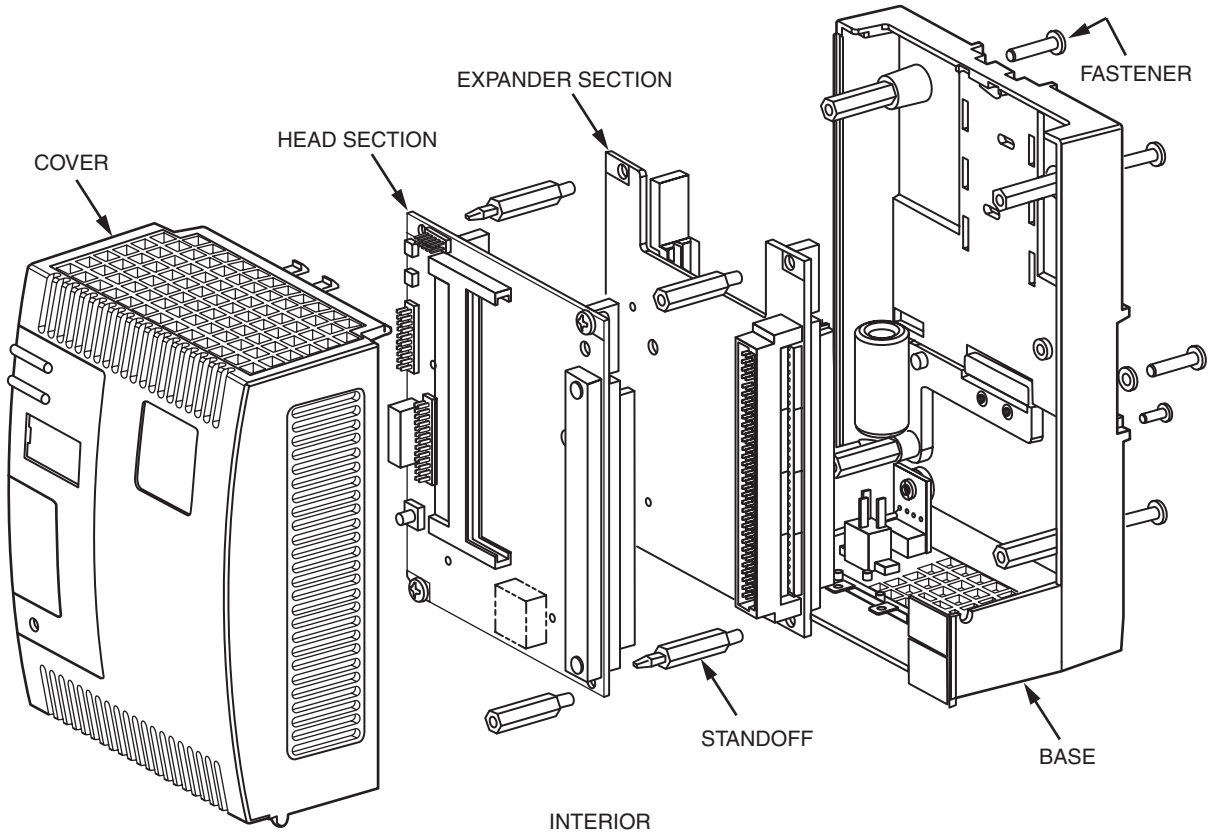
DIN RAIL MOUNTING

The station is easily installed on a DIN rail by engaging the lower rail receiver on the rear of the case with a lip of the DIN rail, rotating the case until the upper rail receiver contacts the other lip of the rail, then pushing the case forward until the DIN Rail Hold-Down Latch is secured. The station is easily removed from the rail by using a screwdriver to lift the latch thus disengaging the case from the rail.

PROCESSORS

The following processors have been tested as components of Micro-I/A Stations:

- Micro-I/A 486-25, 4 MB Processor (PSS 21H-6B3 B4)
- Micro-I/A 486DX4-75, 4 and 8 MB Processors (PSS 21H-6C3 B4)



FUNCTIONAL SPECIFICATIONS**Electromagnetic Compatibility****EUROPEAN COMPLIANCE**

Complies with Council Directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC

RADIO FREQUENCY EMISSIONS

EN 55011 Class A, CISPR 11 Class A

ELECTROSTATIC DISCHARGE

EN 61000-4-2, IEC 61000-4-2,
4 kV/8 kV contact/air

RF RADIATED FIELD

EN 61000-4-3, IEC 61000-4-3, 10 V/m

dc POWER*Burst*

EN 61000-4-4, IEC 61000-4-4, 1 kV

Surge

EN 61000-4-5, IEC 61000-4-5, 0.5/1 kV

Conducted RF

EN 61000-4-6, IEC 61000-4-6, 3 V

I/O SIGNAL/CONTROL*Burst*

EN 61000-4-4, IEC 61000-4-4, 1 kV

Surge

EN 61000-4-5, IEC 61000-4-5, 1 kV

Conducted RF

EN 61000-4-6, IEC 61000-4-6, 3 V

Power**INPUT VOLTAGE**

12 to 24 V dc

INPUT CURRENT

1.25 A (maximum)

POWER CONSUMPTION

15 W (maximum)

Power Supply

Refer to PSS 21H-6B1 B4.

Certification

Listed by Underwriters Laboratories (UL) to UL1950 and CAN/CSA C22.2 No. 950 as Information Technology Equipment (ITE). Input power must be from a listed/certified SELV limited power (Class 2) source such as the Micro-I/A 24 V dc Power Supply (Type 1).

ENVIRONMENTAL SPECIFICATIONS**Ambient Temperature****OPERATING**

0 to 50°C (32 to 122°F)

STORAGE

-40 to +70°C (-40 to +158°F)

Relative Humidity**OPERATING**

5 to 95% (Noncondensing)

STORAGE

5 to 95% (Noncondensing)

Mechanical**VIBRATION (OPERATING)**

0.75 g (5 to 200 Hz)

Chemical**CORROSION AND CONTAMINATION**

Per ISA Standard S71.04, Class G1

Circuit Board Flammability Effects

94V1

Transportation

ASTM D 999-75

PHYSICAL SPECIFICATIONS**Height**

173 cm (6.8 in)

Width

117 cm (4.6 in)

Depth

89 cm (3.5 in)

Mass

485 grams (1.10 lb)

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